

Applicant : Cawthorne  
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**COMPLETE LISTING OF ALL CLAIMS, WITH MARKINGS AND STATUS IDENTIFIERS**  
(Currently amended claims showing deletions by ~~striketrough~~ and additions by underlining)

1 (canceled): A method of decreasing body weight in a patient, said method comprising administering a therapeutically effective amount of somatostatin or a somatostatin agonist to said patient.

2 (canceled): A method of claim 1, wherein said method comprises administering a therapeutically effective amount of a somatostatin agonist to said patient.

3 (currently amended): A method of ~~claim 2~~ decreasing body weight in a patient, wherein said method comprising administering a therapeutically effective amount of a somatostatin agonist is a somatostatin type-2 receptor agonist to said patient.

4 (canceled): A method of claim 2, wherein said somatostatin agonist is a somatostatin type-5 receptor agonist.

5 (currently amended): A The method of claim 3, wherein said somatostatin type-2 receptor agonist has a  $K_i$  of less than 2 nM for the somatostatin type-2 receptor.

6 (canceled): A method of claim 4, wherein said somatostatin type-5 receptor agonist has a  $K_i$  of less than 2 nM for the somatostatin type-5 receptor.

7 (currently amended): A The method of claim ~~2~~ 3, wherein said somatostatin agonist is a somatostatin type-2 receptor selective agonist.

8 (canceled): A method of claim 2, wherein said somatostatin agonist is a somatostatin type-5 receptor selective

agonist.

9 (currently amended): A The method of claim 7, wherein said somatostatin type-2 receptor selective agonist has a  $K_i$  for the somatostatin type-2 receptor that is at least 10 times less than the  $K_i$  for the somatostatin type-1, type-3, type-4, and type-5 receptors.

10 (canceled): A method of claim 8, wherein said somatostatin type-5 receptor selective agonist has a  $K_i$  for the somatostatin type-5 receptor that is at least 10 times less than the  $K_i$  for the somatostatin type-1, type-2, type-3, and type-4 receptors.

11 (canceled): A method of decreasing body weight in a patient, said method comprising administering a therapeutically effective amount of H-Cys-Phe-Phe-D-Trp-Lys-Thr-Phe-Cys-NH<sub>2</sub>, wherein a disulfide bond exists between the free thiols of two Cys residues.

12 (canceled): A method of claim 1, wherein said patient is a non-insulin-dependent diabetic human.

13 (canceled): A method of claim 2, wherein said patient is a non-insulin-dependent diabetic human.

14 (currently amended): A The method of claim 3, wherein said patient is a non-insulin-dependent diabetic human.

15 (canceled): A method of claim 4, wherein said patient is a non-insulin-dependent diabetic human.

16 (currently amended): A The method of claim 5, wherein said patient is a non-insulin-dependent diabetic human.

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17 (canceled): A method of claim 6, wherein said patient is a non-insulin-dependent diabetic human.

18 (currently amended): A The method of claim 7, wherein said patient is a non-insulin-dependent diabetic human.

19 (canceled): A method of claim 8, wherein said patient is a non-insulin-dependent diabetic human.

20 (currently amended): A The method of claim 9, wherein said patient is a non-insulin-dependent diabetic human.

21 (canceled): A method of claim 10, wherein said patient is a non-insulin-dependent diabetic human.

22 (canceled): A method of claim 11, wherein said patient is a non-insulin-dependent diabetic human.

23 (currently amended): A The method according to claim ~~1~~ 3 wherein the somatostatin agonist is

H-D- $\beta$ -Nal-Cys-Tyr-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
H-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Cys- $\beta$ -Nal-NH<sub>2</sub>,  
H-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Cys- $\beta$ -Nal-NH<sub>2</sub>,  
H-D- $\beta$ -Nal-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
H-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Pen-Thr-NH<sub>2</sub>,  
H-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Pen-Thr-NH<sub>2</sub>,  
H-D-Phe-Cys-Tyr-D-Trp-Lys-Thr-Pen-Thr-OH,  
H-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Pen-Thr-OH,  
H-Gly-Pen-Phe-D-Trp-Lys-Thr-Cys-Thr-OH,  
H-Phe-Pen-Tyr-D-Trp-Lys-Thr-Cys-Thr-OH,  
H-Phe-Pen-Phe-D-Trp-Lys-Thr-Pen-Thr-OH,  
H-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-ol  
H-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
H-D-Trp-Cys-Tyr-D-Trp-Lys-Val-Cys-Thr-NH<sub>2</sub>,  
H-D-Trp-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,

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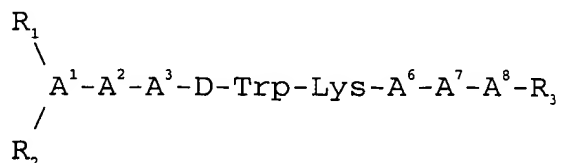
H-D-Phe-Cys-Tyr-D-Trp-Lys-Val-Cys-Thr-NH<sub>2</sub>,  
H-D-Phe-Cys-Tyr-D-Trp-Lys-Val-Cys-Trp-NH<sub>2</sub>,  
H-D-Phe-Cys-Tyr-D-Trp-Lys-Val-Cys-Thr-NH<sub>2</sub>,  
Ac-D-Phe-Lys-Tyr-D-Trp-Lys-Val-Asp-Thr-NH<sub>2</sub> (an amide bridge formed  
between Lys and Asp),  
Ac-hArg(Et)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-D-hArg(Et)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-D-hArg(Bu)-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-D-hArg(Et)<sub>2</sub>-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-L-hArg(Et)<sub>2</sub>-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-D-hArg(CH<sub>2</sub>CF<sub>3</sub>)<sub>2</sub>-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-D-hArg(CH<sub>2</sub>CF<sub>3</sub>)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-D-hArg(CH<sub>2</sub>CF<sub>3</sub>)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Phe-NH<sub>2</sub>,  
Ac-D-hArg(CH<sub>2</sub>CF<sub>3</sub>)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NHEt,  
Ac-L-hArg(CH<sub>2</sub>-CF<sub>3</sub>)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-D-hArg(CH<sub>2</sub>CF<sub>3</sub>)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys(Me)-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-D-hArg(CH<sub>2</sub>CF<sub>3</sub>)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys(Me)-Thr-Cys-Thr-NHEt,  
Ac-hArg(CH<sub>3</sub>, hexyl)-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
H-hArg(hexyl)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-D-hArg(Et)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NHEt,  
Ac-D-hArg(Et)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Phe-NH<sub>2</sub>,  
Propionyl-D-hArg(Et)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys(iPr)-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-D-β-Nal-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Gly-hArg(Et)<sub>2</sub>-NH<sub>2</sub>,  
Ac-D-Lys(iPr)-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-D-hArg(CH<sub>2</sub>CF<sub>3</sub>)<sub>2</sub>-D-hArg(CH<sub>2</sub>CF<sub>3</sub>)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-  
Thr-NH<sub>2</sub>,  
Ac-D-hArg(CH<sub>2</sub>CF<sub>3</sub>)<sub>2</sub>-D-hArg(CH<sub>2</sub>CF<sub>3</sub>)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-  
Phe-NH<sub>2</sub>,  
Ac-D-hArg(Et)<sub>2</sub>-D-hArg(Et)<sub>2</sub>-Gly-Cys-Phe-D-Trp-Lys-Thr-Cys-Thr-NH<sub>2</sub>,  
Ac-Cys-Lys-Asn-4-Cl-Phe-Phe-D-Trp-Lys-Thr-Phe-Thr-Ser-D-Cys-NH<sub>2</sub>,  
H-Bmp-Tyr-D-Trp-Lys-Val-Cys-Thr-NH<sub>2</sub>,  
H-Bmp-Tyr-D-Trp-Lys-Val-Cys-Phe-NH<sub>2</sub>,  
H-Bmp-Tyr-D-Trp-Lys-Val-Cys-p-Cl-Phe-NH<sub>2</sub>,  
H-Bmp-Tyr-D-Trp-Lys-Val-Cys-β-Nal-NH<sub>2</sub>,  
H-D-β-Nal-Cys-Tyr-D-Trp-Lys-Val-Cys-Thr-NH<sub>2</sub>,

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H-D-Phe-Cys-Tyr-D-Trp-Lys-Abu-Cys-Thr-NH<sub>2</sub>,  
H-D-Phe-Cys-Tyr-D-Trp-Lys-Abu-Cys-β-Nal-NH<sub>2</sub>,  
H-pentafluoro-D-Phe-Cys-Tyr-D-Trp-Lys-Val-Cys-Thr-NH<sub>2</sub>,  
Ac-D-β-Nal-Cys-pentafluoro-Phe-D-Trp-Lys-Val-Cys-Thr-NH<sub>2</sub>,  
H-D-β-Nal-Cys-Tyr-D-Trp-Lys-Val-Cys-β-Nal-NH<sub>2</sub>,  
H-D-Phe-Cys-Tyr-D-Trp-Lys-Val-Cys-β-Nal-NH<sub>2</sub>,  
H-D-β-Nal-Cys-Tyr-D-Trp-Lys-Abu-Cys-Thr-NH<sub>2</sub>,  
H-D-p-Cl-Phe-Cys-Tyr-D-Trp-Lys-Abu-Cys-Thr-NH<sub>2</sub>,  
Ac-D-p-Cl-Phe-Cys-Tyr-D-Trp-Lys-Abu-Cys-Thr-NH<sub>2</sub>,  
H-D-Phe-Cys-β-Nal-D-Trp-Lys-Val-Cys-Thr-NH<sub>2</sub>,  
H-D-Phe-Cys-Tyr-D-Trp-Lys-Cys-Thr-NH<sub>2</sub>,  
cyclo(Pro-Phe-D-Trp-N-Me-Lys-Thr-Phe),  
cyclo(Pro-Phe-D-Trp-N-Me-Lys-Thr-Phe),  
cyclo(Pro-Phe-D-Trp-Lys-Thr-N-Me-Phe),  
cyclo(N-Me-Ala-Tyr-D-Trp-Lys-Thr-Phe),  
cyclo(Pro-Tyr-D-Trp-Lys-Thr-Phe),  
cyclo(Pro-Phe-D-Trp-Lys-Thr-Phe),  
cyclo(Pro-Phe-L-Trp-Lys-Thr-Phe) (SEQ ID NO:1),  
cyclo(Pro-Phe-D-Trp(F)-Lys-Thr-Phe),  
cyclo(Pro-Phe-Trp(F)-Lys-Thr-Phe) (SEQ ID NO:2),  
cyclo(Pro-Phe-D-Trp-Lys-Ser-Phe),  
cyclo(Pro-Phe-D-Trp-Lys-Thr-p-Cl-Phe),  
cyclo(D-Ala-N-Me-D-Phe-D-Thr-D-Lys-Trp-D-Phe),  
cyclo(D-Ala-N-Me-D-Phe-D-Val-Lys-D-Trp-D-Phe),  
cyclo(D-Ala-N-Me-D-Phe-D-Thr-Lys-D-Trp-D-Phe),  
cyclo(D-Abu-N-Me-D-Phe-D-Val-Lys-D-Trp-D-Tyr),  
cyclo(Pro-Tyr-D-Trp-t-4-AchxAla-Thr-Phe),  
cyclo(Pro-Phe-D-Trp-t-4-AchxAla-Thr-Phe),  
cyclo(N-Me-Ala-Tyr-D-Trp-Lys-Val-Phe),  
cyclo(N-Me-Ala-Tyr-D-Trp-t-4-AchxAla-Thr-Phe),  
cyclo(Pro-Tyr-D-Trp-4-Amphe-Thr-Phe),  
cyclo(Pro-Phe-D-Trp-4-Amphe-Thr-Phe),  
cyclo(N-Me-Ala-Tyr-D-Trp-4-Amphe-Thr-Phe),  
cyclo(Asn-Phe-Phe-D-Trp-Lys-Thr-Phe-Gaba),  
cyclo(Asn-Phe-Phe-D-Trp-Lys-Thr-Phe-Gaba-Gaba),

cyclo(Asn-Phe-D-Trp-Lys-Thr-Phe) ,  
 cyclo(Asn-Phe-Phe-D-Trp-Lys-Thr-Phe-NH(CH<sub>2</sub>)<sub>4</sub>CO) ,  
 cyclo(Asn-Phe-Phe-D-Trp-Lys-Thr-Phe-β-Ala) ,  
 cyclo(Asn-Phe-Phe-D-Trp-Lys-Thr-Phe-D-Glu)-OH,  
 cyclo(Phe-Phe-D-Trp-Lys-Thr-Phe) ,  
 cyclo(Phe-Phe-D-Trp-Lys-Thr-Phe-Gly) ,  
 cyclo(Phe-Phe-D-Trp-Lys-Thr-Phe-Gaba) ,  
 cyclo(Asn-Phe-Phe-D-Trp-Lys-Thr-Phe-Gly) ,  
 cyclo(Asn-Phe-Phe-D-Trp(F)-Lys-Thr-Phe-Gaba) ,  
 cyclo(Asn-Phe-Phe-D-Trp(NO<sub>2</sub>)-Lys-Thr-Phe-Gaba) ,  
 cyclo(Asn-Phe-Phe-Trp(Br)-Lys-Thr-Phe-Gaba) (SEQ ID NO:3) ,  
 cyclo(Asn-Phe-Phe-D-Trp-Lys-Thr-Phe(I)-Gaba) ,  
 cyclo(Asn-Phe-Phe-D-Trp-Lys-Thr-Tyr(But)-Gaba) ,  
 cyclo(Bmp-Lys-Asn-Phe-Phe-D-Trp-Lys-Thr-Phe-Thr-Pro-Cys)-OH,  
 cyclo(Bmp-Lys-Asn-Phe-Phe-D-Trp-Lys-Thr-Phe-Thr-Pro-Cys)-OH,  
 cyclo(Bmp-Lys-Asn-Phe-Phe-D-Trp-Lys-Thr-Phe-Thr-Tpo-Cys)-OH,  
 cyclo(Bmp-Lys-Asn-Phe-Phe-D-Trp-Lys-Thr-Phe-Thr-MeLeu-Cys)-OH,  
 cyclo(Phe-Phe-D-Trp-Lys-Thr-Phe-Phe-Gaba) ,  
 cyclo(Phe-Phe-D-Trp-Lys-Thr-Phe-D-Phe-Gaba) ,  
 cyclo(Phe-Phe-D-Trp(5F)-Lys-Thr-Phe-Phe-Gaba) ,  
 cyclo(Asn-Phe-Phe-D-Trp-Lys(Ac)-Thr-Phe-NH-(CH<sub>2</sub>)<sub>3</sub>-CO) ,  
 cyclo(Lys-Phe-Phe-D-Trp-Lys-Thr-Phe-Gaba) ,  
 cyclo(Lys-Phe-Phe-D-Trp-Lys-Thr-Phe-Gaba) ,  
 cyclo(Orn-Phe-Phe-D-Trp-Lys-Thr-Phe-Gaba) ,  
 H-Cys-Phe-Phe-D-Trp-Lys-Thr-Phe-Cys-NH<sub>2</sub> ,  
 H-Cys-Phe-Phe-D-Trp-Lys-Ser-Phe-Cys-NH<sub>2</sub> ,  
 H-Cys-Phe-Tyr-D-Trp-Lys-Thr-Phe-Cys-NH<sub>2</sub> or  
 H-Cys-Phe-Tyr(I)-D-Trp-Lys-Thr-Phe-Cys-NH<sub>2</sub> .

24 (currently amended): A The method according to claim 1 3 wherein the somatostatin agonist is



wherein

A<sup>1</sup> is a D- or L- isomer of Ala, Leu, Ile, Val, Nle, Thr, Ser, β-Nal, β-Pal, Trp, Phe, 2,4-dichloro-Phe, pentafluoro-Phe, p-X-Phe, or o-X-Phe, wherein X is CH<sub>3</sub>, Cl, Br, F, OH, OCH<sub>3</sub> or NO<sub>2</sub>;

A<sup>2</sup> is Ala, Leu, Ile, Val, Nle, Phe, β-Nal, pyridyl-Ala, Trp, 2,4-dichloro-Phe, pentafluoro-Phe, o-X-Phe, or p-X-Phe, wherein X is CH<sub>3</sub>, Cl, Br, F, OH, OCH<sub>3</sub> or NO<sub>2</sub>;

A<sup>3</sup> is pyridyl-Ala, Trp, Phe, β-Nal, 2,4-dichloro-Phe, pentafluoro-Phe, o-X-Phe, or p-X-Phe, wherein X is CH<sub>3</sub>, Cl, Br, F, OH, OCH<sub>3</sub> or NO<sub>2</sub>;

A<sup>6</sup> is Val, Ala, Leu, Ile, Nle, Thr, Abu, or Ser;

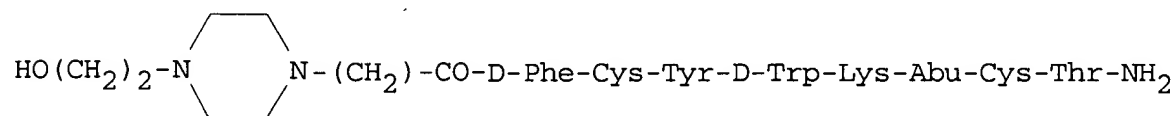
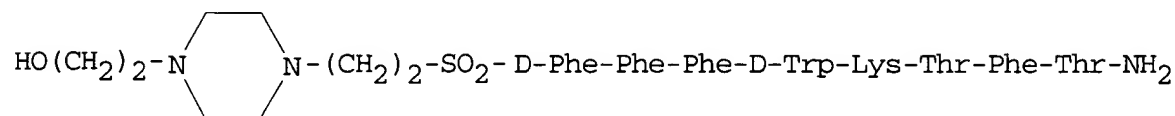
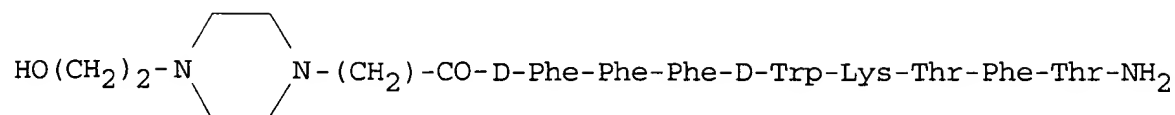
A<sup>7</sup> is Ala, Leu, Ile, Val, Nle, Phe, β-Nal, pyridyl-Ala, Trp, 2,4-dichloro-Phe, pentafluoro-Phe, o-X-Phe, or p-X-Phe, wherein X is CH<sub>3</sub>, Cl, Br, F, OH, OCH<sub>3</sub> or NO<sub>2</sub>;

A<sup>8</sup> is a D- or L-isomer of Ala, Leu, Ile, Val, Nle, Thr, Ser, Phe, β-Nal, pyridyl-Ala, Trp, 2,4-dichloro-Phe, pentafluoro-Phe, p-X-Phe, or o-X-Phe, wherein X is CH<sub>3</sub>, Cl, Br, F, OH, OCH<sub>3</sub> or NO<sub>2</sub>;

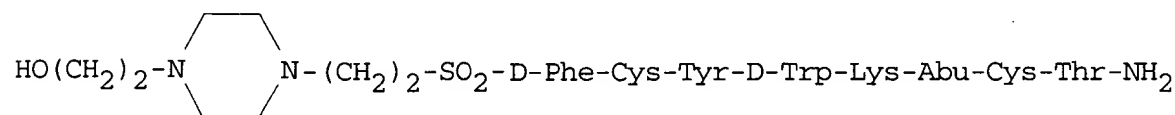
each R<sub>1</sub> and R<sub>2</sub>, independently, is H, lower acyl or lower alkyl; and R<sub>3</sub> is OH or NH<sub>2</sub>; provided that at least one of A<sup>1</sup> and A<sup>8</sup> and one of A<sup>2</sup> and A<sup>7</sup> must be an aromatic amino acid; and further provided that A<sup>1</sup>, A<sup>2</sup>, A<sup>7</sup> and A<sup>8</sup> cannot all be aromatic amino acids.

25 (currently amended): A The method according to claim 24 wherein the linear somatostatin agonist is  
H-D-Phe-p-chloro-Phe-Tyr-D-Trp-Lys-Thr-Phe-Thr-NH<sub>2</sub>,  
H-D-Phe-p-NO<sub>2</sub>-Phe-Tyr-D-Trp-Lys-Val-Phe-Thr-NH<sub>2</sub>,  
H-D-Nal-p-chloro-Phe-Tyr-D-Trp-Lys-Val-Phe-Thr-NH<sub>2</sub>,  
H-D-Phe-Phe-Phe-D-Trp-Lys-Thr-Phe-Thr-NH<sub>2</sub>,  
H-D-Phe-Phe-Tyr-D-Trp-Lys-Val-Phe-Thr-NH<sub>2</sub>,  
H-D-Phe-p-chloro-Phe-Tyr-D-Trp-Lys-Val-Phe-Thr-NH<sub>2</sub> or  
H-D-Phe-Ala-Tyr-D-Trp-Lys-Val-Ala-β-D-Nal-NH<sub>2</sub>.

26 (currently amended): A The method according to claim ± 3 wherein the somatostatin agonist is



or



27 (canceled): A method according to claim 1 wherein said patient is obese.

28 (currently amended): A The method according to claim 3 wherein said patient is obese.

29 (canceled): A method according to claim 4 wherein said patient is obese.

30 (currently amended): A The method according to claim 7 wherein said patient is obese.

31 (canceled): A method according to claim 8 wherein said patient is obese.

32 (canceled): A method according to claim 11 wherein said patient is obese.